

Title (en)
Kinetic energy regenerating device.

Title (de)
Kinetische Energiespeichereinrichtung.

Title (fr)
Dispositif de régénération d'énergie cinétique.

Publication
EP 0616149 A1 19940921 (EN)

Application
EP 94400573 A 19940316

Priority
JP 8026793 A 19930316

Abstract (en)
A kinetic energy regenerating device utilizes the principle of perfectly elastic collision through an elastic member between a rotating body on the driving side and a flywheel to regenerate kinetic energy at a high regenerating efficiency. The kinetic energy regenerating device (1) comprises a main shaft (2) connected to the output shaft of a driving means, a main disk (5) fixedly mounted on the main shaft (2), a first rotor (6) supported on the main shaft (2) for rotation relative to the main shaft (2), a flywheel (10) supported on the main shaft (2) for rotation relative to the main shaft (2), a first clutch (9) for engaging the main disk (5) and the first rotor (6) and disengaging the same from each other, and a torsion coil spring (16) elastically interlocking the first rotor (6) and the flywheel (10). The rotational energy of the main disk (5) is transmitted through the first clutch (9) to the first rotor (6) to rotate the flywheel (10) and, at the same time, to twist the torsion coil spring (16). Thus, the perfectly elastic collision between the rotational components on the driving side and the flywheel (10) through the torsion coil spring (16) is utilized. <IMAGE>

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F16H 33/02 (2013.01 - EP US); **Y10T 74/18368** (2015.01 - EP US); **Y10T 74/2117** (2015.01 - EP US)

Citation (search report)
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